

5

10

Patent Claims

1. Operating station (201) for a bottoming device for cross bottom sacks (19),
 - whereby the bottoming device comprises of a gluing station (30), in which the gluing format (4, 4a, 4b), according to which glue to be spread on the components of the sack (19), is defined by the glue traces (3), whose structure is determined through the opening and the closing of the valves (32) and
 - whereby the gluing station (30) is equipped with a computing unit (202), with which the selective opening and closing of the valves (32) can be done,
 - whereby digital target images of the glue traces (3), which define the gluing format (4, 4a, 4b) are stored in the memory (207) of the computing unit (202),

characterized in that

a display element (203), by means of which the glue deposit (208) on the sack components (1, 2, 48) can be displayed.

- 16 -

2. Operating station (201) according to claim 1,
characterized in that
an operating terminal (204), through which changes can be made in the target images of the gluing traces (3,44-47)
3. Operating station (201) according to claim 2,
characterized in that
the operating terminal (204) comprises of
 - at least one manual input option - such as a keyboard (205) - and/or
 - interfaces (209), with which the digitalized data about the glue deposition can be transmitted.
4. Operating station (204) according to claim 2 or 3,
characterized in that
the operating station (204) is connected with a sack recognition system,
 - which includes sensory media - such as, for instance, a digital camera (6),
 - and recognizes the dimensions of the sack components (1, 2, 48), which (1, 2, 48) are to be transported to the gluing station (30).
5. Operating station (204) according to one of the preceding claims,
characterized in that
a computing unit (202), with which, from the digital target images, which represent the desired planar gluing format (4), the digital target images of the glue traces (3,44-47) can be calculated.
6. Operating station according to one of the preceding claims,
characterized in that

-17 -

a computing unit (202), with which, based on the data related to the geometrical dimensions of the cross bottom sacks (19) and/or their later filling, the digital target images of the glue traces (3,44-47) can be calculated.

7. Operating station according to one of the preceding claims,
characterized in that
through the operating station (201) - preferably through the operating terminal (204) - the devices for adjusting the glue deposited per unit area of the sack components (1, 2) can be actuated.
8. Operating station according to one of the preceding claims,
characterized in that
 - the operating station (201) is connected with the devices for the measurement of the glue deposit
 - and that the results of the measurements by the device for the measurement of the glue deposit are displayed on a display element (203), which is connected with the operating station (201).
9. Operating station according to one of the preceding claims,
characterized in that
the operating station (201)
 - is connected both with the devices for the measurement of the glue deposit
 - as well as with the devices for the adjustment of the glue deposit per unit area of the sack components (1, 2),
 - and that it is provided with a computing unit (202), which monitors and regulates the setting of the glue deposit.

-18 -

10. Method for the operation of a bottomming device according to the preamble of the claim 1,
characterized in that
the digital target images,
 - which determine the structure of the glue traces (3,44-47), and which are stored, modified or supplemented in the memory (207) of the computing unit (202),
 - by transmitting the data to the operating station (201) through a keyboard (205) and/or digital interfaces (209).
11. Method according to claim 10,
characterized in that
the data, which is transmitted, is obtained in the following manner:
 - by means of a device, such as a scanner or a digital camera, which is suitable for the scanning of the gluing profile (4) of the sack component (1, 2),
 - through the editing of a glue profile with an external marking device, and/or
 - through the editing of a glue profile in the operating station (201),
12. Method according to claim 10 or 11,
characterized in that
the target images of the glue traces (3, 44 - 47) or the gluing formats (4) are shown on a display element (203) - possibly also while they (3, 4, 44 - 47) are being modified.

-19 -

13. Method according to claim 11 or 12,

characterized through the following characteristic features

- transmission of the target images of the gluing formats (4) to the memory of the computing unit (202)
- calculations for conversion of the gluing formats (4) into glue traces (3,44 - 47)
- possibly with the editing of the target images of the glue traces (3, 44 - 47) or of the gluing formats (4)
- calculation of the opening and closing time points of the different valves (32) in dependence of the gluing speed (V).

14. Method according to claim 11 or 12

characterized through following characteristic features

- transmission of the target images of the glue traces (3, 44 - 47) to the memory of the computing unit (202)
- possibly with the editing of the target images of the glue traces (3, 44 - 47) or of the gluing formats (4)
- calculation of the opening and closing time points of the different valves (32) in dependence of the gluing speed (V).